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T. Furukawa and K. Koike, Primary energy-dependent attenuation of polarization of secondary electrons emitted from Ag/Fe(110) 425 (1999) 180
D.S.-W. Lim and E.M. Stuve, Solvation and ionization of hydroxyl groups in water–ice layers on silver (110) 425 (1999) 233

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G.A. Evangelakis, E. Vamvakopoulos, D. Pantelios and N.I. Papanicolaou, Coverage dependent self-diffusion on Cu(111) by molecular dynamics 425 (1999) L393
M. Han, Y. Luo, J.E. Moryl and R.M. Osgood, Jr., An investigation of the surface reaction mechanisms of alternating-grown, ordered atomic layers: CdS on ZnSe(100) 425 (1999) 259
J.J. Cox, S.M. Bayliss and T.S. Jones, Influence of substrate orientation on the formation of ordered copper phthalocyanine overlayers on InAs 425 (1999) 326

Growth

P.J. Moller, S.A. Komolov and E.F. Lazneva, Selective growth of a MgO(100)-c(2 × 2) superstructure on a $SrTiO_3$(100)-(2 × 2) substrate 425 (1999) 15
A. Ramstad, F. Strisland, S. Raaen, T. Worren, A. Borg and C. Berg, Growth and alloy formation studied by photoelectron spectroscopy and STM 425 (1999) 57
M. Han, Y. Luo, J.E. Moryl and R.M. Osgood, Jr., An investigation of the surface reaction mechanisms of alternating-grown, ordered atomic layers: CdS on ZnSe(100) 425 (1999) 259

Ion bombardment

D. Nakamura, J. Yuhara and K. Morita, Self-recovery of monolayer Pb adsorbates on the Si(111)-1 × 1-Pb surface under ion irradiation at room temperature 425 (1999) 174

Ion emission

J. Wang and L. Holmlid, Ion K_N^+ time-of-flight angular distributions for K beam scattering and cluster formation at graphite surfaces 425 (1999) 81
V.N. Ageev and S.Y. Davydov, Ionization of hyperthermal beams on solid surfaces 425 (1999) 152

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A.V. Dvurechenskii, V.A. Zinovyev, V.A. Markov and V.A. Kudryavtsev, Surface reconstruction induced by a pulsed low-energy ion beam during Si(111) molecular beam epitaxy 425 (1999) 185

Secondary electron emission

T. Furukawa and K. Koike, Primary energy-dependent attenuation of polarization of secondary electrons emitted from Ag/Fe(110) 425 (1999) 180

Self-assembly

Q. Jin, J.A. Rodriguez, C.Z. Li, Y. Darici and N.J. Tao, Self-assembly of aromatic thiols on Au(111) 425 (1999) 101
P. Fenter, F. Schreiber, L. Berman, G. Scoles, P. Eisenberger and M.J. Bedzyk, Erratum to: "On the structure and evolution of the buried S/Au interface in self-assembled monolayers: X-ray standing wave results" [Surf. Sci. 412/413 (1998) 213–235] 425 (1999) 138
C.M. Whelan, C.J. Barnes, C.G.H. Walker and N.M.D. Brown, Benzenethiol adsorption on Au(111) studied by synchrotron ARUPS, HREELS and XPS 425 (1999) 195

Surface chemical reaction

J. Cortés and E. Valencia, Geometric heterogeneity of the lattice and its effects on the kinetics phase transitions of surface reactions 425 (1999) L357
C.A. Lucas, N.M. Marković and P.N. Ross, The adsorption and oxidation of carbon monoxide at the Pt(111)/electrolyte interface: atomic structure and surface relaxation 425 (1999) L381
M. Han, Y. Luo, J.E. Moryl and R.M. Osgood, Jr., An investigation of the surface reaction mechanisms of alternating-grown, ordered atomic layers: CdS on ZnSe(100) 425 (1999) 259
Z.-M. Hu and H. Nakatsuji, Adsorption and disproportionation reaction of OH on Ag surfaces: dipped adcluster model study 425 (1999) 296

Surface diffusion

G.A. Evangelakis, E. Vamvakopoulos, D. Pantelios and N.I. Papanicolaou, Coverage dependent self-diffusion on Cu(111) by molecular dynamics 425 (1999) L393
M.A. Salmi, M. Alatalo, T. Ala-Nissila and R.M. Nieminen,

Energetics and diffusion paths of gallium and arsenic adatoms on flat and stepped GaAs(001) surfaces
425 (1999) 31

J. Ma, L. Cai, X. Xiao and M.M.T. Loy, On the mechanism limiting CO diffusion perpendicular to steps on Pt(111)
425 (1999) 131

D.J. Klinke, II, D.J. Dooling and L.J. Broadbelt, A theoretical study of methylidyne chemisorption on Ni(111) and Co(0001) surfaces 425 (1999) 334

Surface electronic phenomena (work function, surface potential, surface states, etc.)

F.J. Williams and C.M. Aldao, On the origin of metal film work function changes under electrochemical modification
425 (1999) L387

Surface energy

L. Vitos, H.L. Skriver and J. Kollár, The formation energy for steps and kinks on cubic transition metal surfaces
425 (1999) 212

Surface relaxation and reconstruction

C.A. Lucas, N.M. Marković and P.N. Ross, The adsorption and oxidation of carbon monoxide at the Pt(111)/electrolyte interface: atomic structure and surface relaxation
425 (1999) L381

M.A. Salmi, M. Alatalo, T. Ala-Nissila and R.M. Nieminen, Energetics and diffusion paths of gallium and arsenic adatoms on flat and stepped GaAs(001) surfaces
425 (1999) 31

A.V. Dvurechenskii, V.A. Zinovyev, V.A. Markov and V.A. Kudryavtsev, Surface reconstruction induced by a pulsed low-energy ion beam during Si(111) molecular beam epitaxy 425 (1999) 185

Q.D. Jiang and J. Zegenhagen, c(6 × 2) and c(4 × 2) reconstruction of $SrTiO_3$(001) 425 (1999) 343

Surface roughening

J.C. Heyraud, J.J. Métois and J.M. Bermond, The roughening transition of the Si{113} and Si{110} surfaces – an in situ, real time observation 425 (1999) 48

Surface segregation

K. Aïd, Y. Garreau, M. Sauvage-Simkin and R. Pinchaux, Atomic structure of the (2 × 4) $In_{0.53}Ga_{0.47}As$/InP(001) reconstructed surface. A study of average strain and growth temperature effects on the indium segregation
425 (1999) 165

D. Nakamura, J. Yuhara and K. Morita, Self-recovery of monolayer Pb adsorbates on the Si(111)-1 × 1-Pb surface under ion irradiation at room temperature
425 (1999) 174

Surface stress

K. Swamy, E. Bertel and I. Vilfan, Step interaction and relaxation at steps: Pt(110) 425 (1999) L369

Surface structure, morphology, roughness, and topography

K. Swamy, E. Bertel and I. Vilfan, Step interaction and relaxation at steps: Pt(110) 425 (1999) L369

P. Korecki, P. Piatkowski and M. Szymoński, Holographic inversion of Kikuchi electron diffraction patterns for thin epitaxial NaCl films grown on GaAs(001) 425 (1999) 22

J. Lahtinen, J. Vaari, T. Vaara, K. Kauraala, P. Kaukasoina and M. Lindroos, LEED investigations on Co(0001): the clean surface and the (2 × 2)-K overlayer 425 (1999) 90

P. Fenter, F. Schreiber, L. Berman, G. Scoles, P. Eisenberger and M.J. Bedzyk, Erratum to: "On the structure and evolution of the buried S/Au interface in self-assembled monolayers: X-ray standing wave results" [Surf. Sci. 412/413 (1998) 213–235] 425 (1999) 138

R. Lindsay, P. Baumgärtel, R. Terborg, O. Schaff, A.M. Bradshaw and D.P. Woodruff, Molecules on oxide surfaces: a quantative structural determination of NO adsorbed on NiO(100) 425 (1999) L401

N. Swami, H. He and B.E. Koel, Ordering and stabilization of C_{60} films on the $(\sqrt{3} \times \sqrt{3})R30^\circ$ Sn/Pt(111) surface alloy
425 (1999) 141

S. Thevuthasan, Y.J. Kim, S.I. Yi, S.A. Chambers, J. Morais, R. Denecke, C.S. Fadley, P. Liu, T. Kendelewicz and G.E. Brown, Jr., Surface structure of MBE-grown α-Fe_2O_3(0001) by intermediate-energy X-ray photoelectron diffraction
425 (1999) 276

J.J. Cox, S.M. Bayliss and T.S. Jones, Influence of substrate orientation on the formation of ordered copper phthalocyanine overlayers on InAs 425 (1999) 326

Q.D. Jiang and J. Zegenhagen, c(6 × 2) and c(4 × 2) reconstruction of $SrTiO_3$(001) 425 (1999) 343

Surface thermodynamics (including phase transitions)

J. Cortés and E. Valencia, Geometric heterogeneity of the lattice and its effects on the kinetics phase transitions of surface reactions 425 (1999) L357

Surface waves

Plasmons

V. Russier and M.P. Pileni, Optical absorption spectra of arrays of metal particles from cluster calculations: cluster size and shape effects 425 (1999) 313

Thermal desorption

J. Wang and L. Holmlid, Ion K_N^+ time-of-flight angular distributions for K beam scattering and cluster formation at graphite surfaces 425 (1999) 81

Vibrations of adsorbed molecules

N. Swami, H. He and B.E. Koel, Ordering and stabilization of C_{60} films on the $(\sqrt{3} \times \sqrt{3})R30^\circ$ Sn/Pt(111) surface alloy
425 (1999) 141